

IN THE CLAIMS:

Please amend the claims as follows:

1        1. (Currently amended) A transceiving unit for wireless communications over the  
2        industrial-scientific-medical (ISM) spectrum comprising:

3                (a) an RF sub-module for transceiving information in a 2.4 to 2.5 GHz band; and,  
4                (b) a DECT baseband processor coupled and adapted to provide time slot and frame timing

5                to the RF sub-module such that at least ~~seventy-five~~ hopping carrier frequencies between 2.4 GHz

6                and 2.4835 GHz and a minimum hop rate of 2.5 hops per second are maintained.

1        2. (Original) The transceiving unit as recited in claim 1 wherein the baseband  
2        processor comprises first and second means for supporting concurrent voice and data  
3        communications.

1        3. (Original) The transceiving unit as recited in claim 1 wherein each time slot  
2        comprises a 32-bit preamble for synchronization, a 64 bit A-field for signaling and a B-field  
3        comprising 320 bits and 4 bit for CRC.

1        4. (Original) The transceiving unit as recited in claim 1 wherein the baseband  
2        processor provides time slot and frame timing such that the at least ~~seventy-five~~ carrier frequencies  
3        are programmed ranging between 2401.122 MHz to 2479.813 MHz and spaced 1.063 MHz apart.

1        5. (Currently amended) The transceiving unit as recited in claim 4 wherein the  
2        baseband processor provides time slot and frame timing such that each of the at least seventy-five  
3        channels carrier frequencies supports a ten-millisecond frame.

*Sub B*  
*3*  
*B*

1        6. (Original) The transceiving unit as recited in claim 5 wherein the baseband processor  
2        provides time slot and frame timing such that each frame comprises sixteen time slots.

1        7. (Original) The transceiving unit as recited in claim 6 wherein the sixteen time slots  
2        preferably change carrier signals after two consecutive frames:

1        8. (Original) The transceiving unit as recited in claim 7 wherein unequal amounts of  
2        time slots are allocated between voice and data communications.

1        9. (Original) The transceiving unit as recited in claim 7 wherein time slots 1, 2, 3 and  
2        9, 10, 11 are allocated for data communications and time slots 4, 5, 6 and 12, 13, 14 are allocated  
3        for voice communications.

1 10. (Original) The transceiving unit as recited in claim 9 wherein time slot 8 is allocated  
2 to program the transmit carrier frequency and slot 16 is allocated to program the receive carrier  
frequency.

1 11. (Currently amended) The transceiving unit as recited in claim 9 wherein time slots  
2 1, 2, 3 and 9, 10, 11 allocate 80 bits in the a B field of each time slot to a Forward Error Correction  
3 Code (FECC).

1 12. (Original) The transceiving unit as recited in claim 9 wherein time slots 4, 5, 6 and  
2 12, 13, 14 allocate the an entire B field of each time slot to voice information.

1           13. (Currently amended) A wireless communications method over the industrial-  
2           scientific-medical (ISM) spectrum comprising the steps of:  
3           (a) transceiving information in a 2.4 to 2.5 GHz band; and  
4           (b) adapting a DECT baseband processor to provide time slot and frame timing for step (a)  
5           such that at least seventy-five hopping carrier frequencies between 2.4 GHz and 2.4835 GHz and a  
6           minimum hop rate of 2.5 hops per second are maintained.

1           14. (Original) The method as recited in claim 13 wherein step (a) further comprises the  
2           step of supporting concurrent voice and data information.

1           15. (Original) The method as recited in claim 14 wherein the voice and data information  
2           are packetized into plural time slots within a time frame and share equal amounts of the time frame.

1           16. (Currently amended) The method as recited in claim 15 wherein each of the plural  
2           time slots has a different one of the ~~plural frequency channels~~ at least seventy-five carrier  
3           frequencies.

1        17. (Currently amended) The method as recited in claim 16 wherein each of the plural  
2        time slots changes to a different one of the ~~plural frequency channels~~ at least seventy-five carrier  
3        frequencies after a predetermined number of consecutive frames.

*15 Sub 1B  
cont 2 B*  
1        18. (Original) The method as recited in claim 16 further comprising the step of  
2        providing time slot and frame timing such that seventy-five carrier frequencies are programmed  
3        ranging between 2401.122 MHz to 2479.813 MHz and spaced 1.063 MHz apart.

1        19. (Currently amended) The method as recited in claim 18 further comprising the step  
2        of providing time slot and frame timing such that each of the ~~seventy-five channels~~ carrier  
3        frequencies supports a ten-millisecond frame.

1 20. (Currently amended) A system for wireless communications over the industrial-  
2 scientific-medical spectrum comprising:  
3  
4 (a) a base station unit having a first transceiving unit;  
5  
6 (b) a cordless personal access device having a second transceiving unit; and,  
7  
8 (c) the first and second transceiving units including:  
9  
10 (i) an RF sub-module for transceiving information in a 2.4 to 2.5 GHz band; and,  
11  
12 (ii) a DECT baseband processor coupled and adapted to provide time slot and frame  
13 timing to the RF sub-module such that at least seventy-five hopping carrier frequencies between 2.4  
14 GHz and 2.4835 GHz and a minimum hop rate of 2.5 hops per second are maintained.